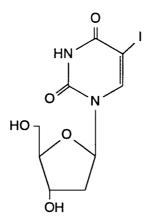
IODODEOXYURIDINE

NSC - 39661



Chemical Name:

2'-Deoxy-5-iodouridine

Other Names:

Idoxuridine (USAN); 5-IUdR

CAS Registry Number: 54-42-2

Molecular Formula: $C_9H_{11}IN_2O_5$ M.W.: 354.1

Approximate Solubility: (mg/mL)

0.1 N NaOH	30
0.1 N HCL	2
H ₂ O	2

Stability:

Bulk:

No changes were found in material stored at room temperature and at 60 °C for 28 days.

Solution:

An aqueous solution (2 mg/mL) shows no decomposition after 24 hours at room temperature (UV and paper chromatography).

Ultraviolet Absorption:

(Water)

$$\lambda_{max} = 288 \pm 2 \text{ nm}$$

 $\varepsilon = 7,500 - 7,800$

High Performance Liquid Chromatography:

Column:

4.6 mm i.d. x 25 cm Alltech Spherisorb

S5 ODS

Mobile Phase:

2% CH₃CN in water

Flow Rate:

2.5 mL/min

Detection:

UV at 254 nm

Sample Preparation: 1 mg/mL in water or internal standard

solution

Internal Standard:

adenosine (0.3 mg/mL in 0.01 N NaOH)

Retention Volume:

31 mL (NSC - 39661)

36 mL (I.S.)

Toxicity Data:

Rat(ip): LD₅₀: 4000 mg/kg

Advances in Teratology, 3,181,(1968)

Mouse(ip): LD₅₀: 1000 mg/kg

Journal of the National Cancer Institute, 62,911,(1979)